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### 1.1 Warnings and recommendations

Before proceeding with the installation we recommend that you read the content of this manual very carefully.

The warranty will automatically become void in case of negligence, improper use, tampering by unauthorised personnel.

Therefore, the Switchboard:

- must only be installed indoors;
- must be kept away from water drips and sprays;
- must only be used in conjunction with BTicino 2 wire digital video door entry systems.

### 1.2 What's in your box

In your box you will find:

- Switchboard
- CD with the manuals



# Switchboard

## 2 Description

### 2.1 Main functions

Once correctly configured using the TiSwitchboardDevice program, in addition to performing the standard functions (door lock release and video monitoring), the switchboard can also be used to receive and forward audio/video calls, and to manage alarms, both inside the individual apartments of the 2 wire digital video door entry system, and in common areas. The unit has a 7" LCD colour display, icon menu, menu navigation keys, and video door entry system function keys.

The main functions of the switchboard are the following:

- call an apartment handset
- receive calls from Entrance Panels and forward them, if necessary, to the various apartment handsets
- receive standard or alarm calls from the apartments
- control the electrical door locks of the Entrance Panels
- switch the staircase lights on
- activate a relay
- switch on Entrance Panels or a cameras (monitoring)
- cycle through the cameras (surveillance)

The switchboard also provides the following:

- DAY/NIGHT management, with the possibility of only enabling the switchboard functions during certain time bands (which can also be set by the user);
- a CALL LIST, saving all the unanswered calls received from apartment handsets;
- an HANDSET DIRECTORY and an ENTRANCE PANEL DIRECTORY. Their programming ensures easy identification of the calling apartment or entrance panel.

## INTEGRATIONS

### Communication:

From the main menu screen, it is possible to access a range of video door entry system settings and functions.

The keys also enable the activation of:

DIRECT CALL – intercommunicating call to an apartment handset

ACTIVATION – direct activation of the door lock associated to the entrance panel

DIRECTORY – display of the handset, entrance panel, and switchboard directories.

CAMERA/CYCLICAL SELECTION – direct activation of the camera associated to the entrance panel, and cycling through the cameras present on the system

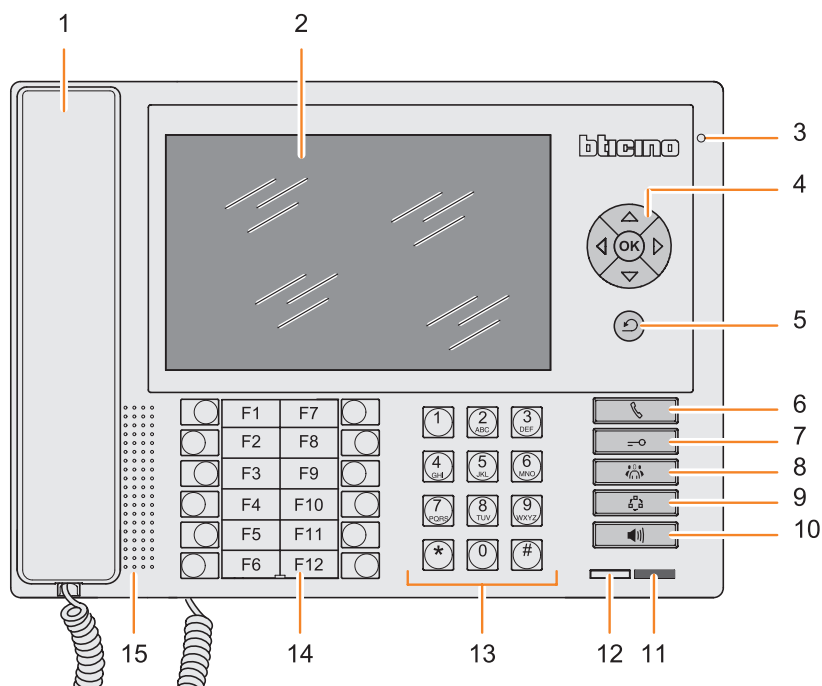
HANDSFREE – activation of handsfree mode.

### Alarms:

It gives the possibility of receiving and managing alarms from apartment or common areas.

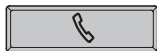
**NOTE: The switchboard is unable to manage the calls from riser Entrance Panels "EP" (i.e. entrance panels installed downstream interface 346851). Calls from riser Entrance Panels "EP" will therefore always be forwarded directly to the Handsets "IU" (Internal Units).**

### 2.2 Front view



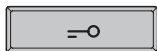
- 1 **Handset**
- 2 **Colour LCD display;** it displays the menus for the operation and programming functions. It shows the images recorded from the entrance panel and from other cameras.
- 3 **Handsfree microphone**
- 4 **Navigation key;** it's used to navigate through the menu and confirm the selections made (OK key).
- 5 **Cancel key**
- 6 **Direct call key**
- 7 **Door lock key**
- 8 **Directory key**
- 9 **Entrance panel activation and cycling key**
- 10 **Handsfree key**
- 11 **Active alarm LED**
- 12 **Switchboard status LED**
- 13 **Alphanumeric keypad**
- 14 **Configurable function keypad**
- 15 **Handsfree loudspeaker**

## 2.3 Video door entry system function keys



### Direct call key

To send the call to the desired apartment handset, after entering the associate directory extension.



### Door lock key

When the connection is activated, the door lock of the calling Entrance Panel opens. When idle, the door lock of the associated Entrance Panel opens.



### Directory key

It displays the handset, entrance panel, and switchboard directory screen.



### Entrance Panel/ Cycle mode activation

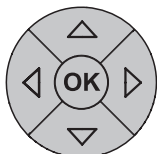
It switches the associated Entrance Panel on and enables cycling through any other Entrance Panels or cameras present.



### Handsfree key

It activates the handsfree mode, excluding the handset, or vice versa.

## 2.4 Navigation keys



### OK key

It switches the monitor on.

It provides access to the menu; it confirms the selection made.

### Keys

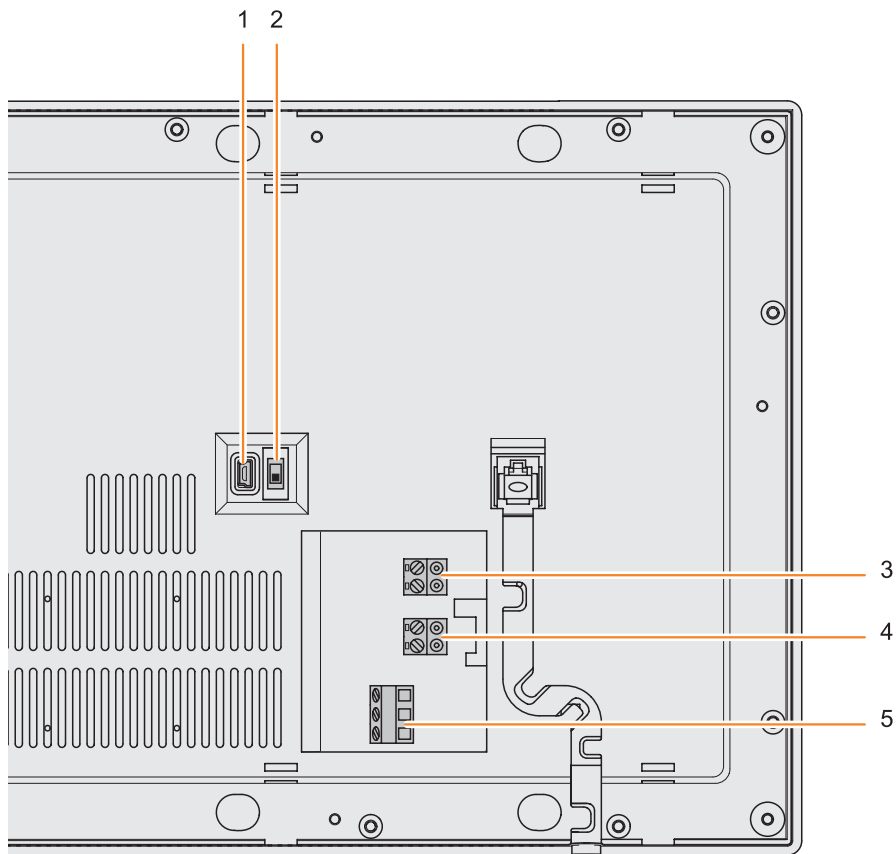
They can be used to scroll horizontally or vertically through the menu items; In some submenus, they can be used to change the values set.



### C key

To Return to the previous screen; if the user is already on the first screen it can be used to turn the display off.

### 2.5 Back view

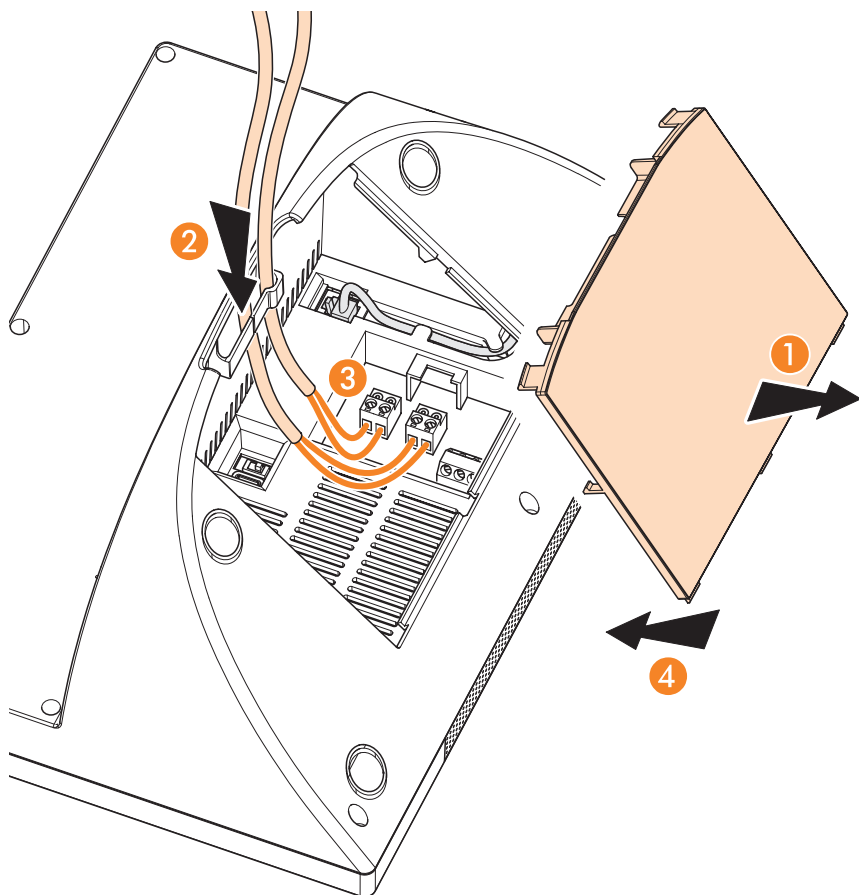


- 1 Mini-USB connector for connection to the PC
- 2 End of line ON/OFF micro switch
- 3 Connection to the BTicino 2 wire digital system BUS
- 4 Additional power supply connector (1-2)
- 5 Optional siren contact connector



# Switchboard

## 3 Installation



- 1 Remove the cover from the base
- 2 Insert the cable in the appropriate slot
- 3 Connect to the bus (and to the additional power supply if required)
- 4 Replace the cover

After connecting and powering the switchboard, press **OK** to display the main menu. Use the keys  $\triangle \nabla \triangleleft \triangleright$  to select the desired functions and press **OK** to confirm. For a detailed description of all functions refer to the user manual that can be found in the CD supplied.

Use the configuration icon to access to the installation setup menu. This menu is password protected and can only be accessed by the installer.

### WARNING

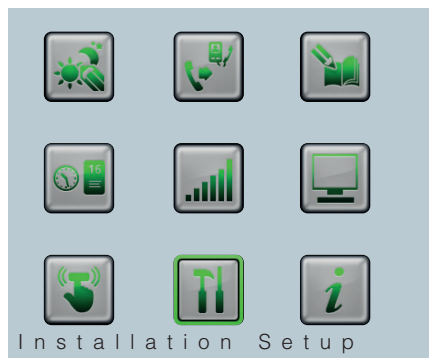
Wrong actions may compromise the operation of the switchboard.



Select the Configuration functions



Press **OK** to confirm

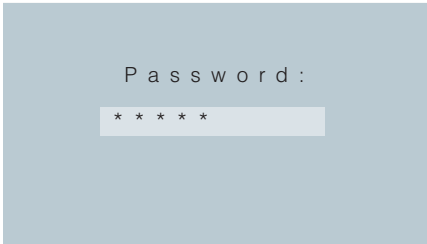


Select the Installation Setup function



Press **OK** to display the access screen

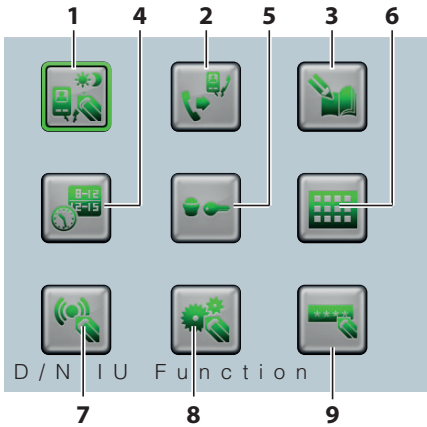
# Switchboard



Enter the password using the keypad  
(default password: 12345)



Press **OK** to confirm



The following icon screen appears:

- 1 Handset (IU) D/N function
- 2 Slave handset (IU)
- 3 Modify contact
- 4 Time bands
- 5 Automations
- 6 Function key setup
- 7 Alarm setup
- 8 Configuration
- 9 Change password

### 4.1 Handset (IU) D/N function

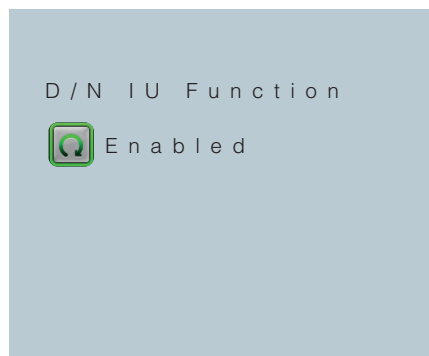
This can be used to enable or disable the handset "Day/Night" function.



Select the handset D/N function



Press **OK** to access the menu



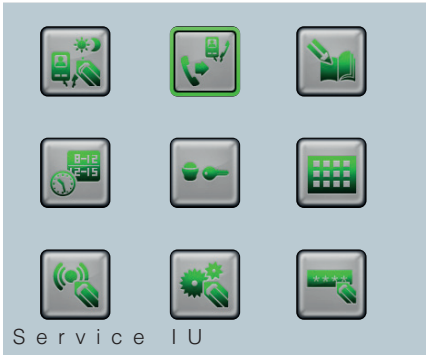
Press **OK** repeatedly to enable/disable the D/N function



Press to exit the menu

## 4.2 Slave handset (IU)

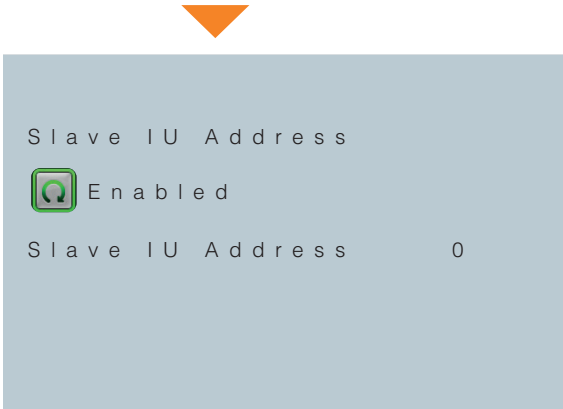
It can be used to enable or disable the slave handset (temporarily answer any calls received by the switchboard), and to configure the corresponding address.



Select the slave handset function



Press **OK** to access the menu



To enable or disable the slave handset:



Select the desired position



Press **OK** repeatedly to make the selection

To change the address:



Select the desired position



Press **OK** to highlight the value to change



Change the value



Press **OK** to confirm



Press to exit the menu

### 4.3 Modify contact

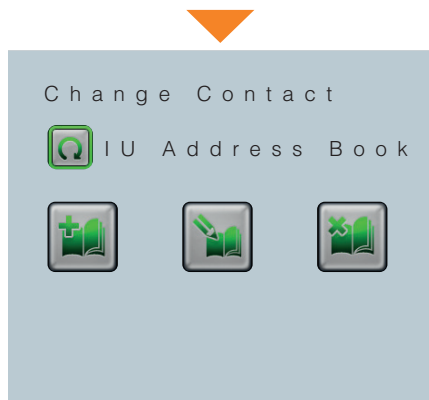
It can be used to create, change, or delete the contacts in the various directories.



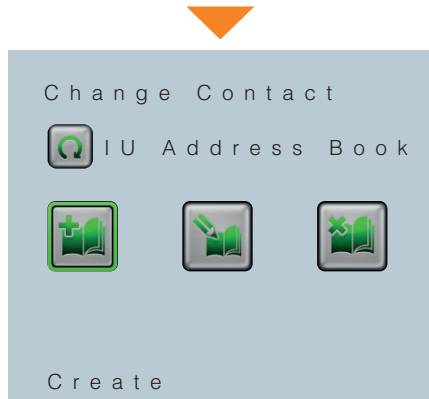
Select the Modify Contact function



Press **OK** to access the menu



Press **OK** repeatedly to select the desired directory



Select the desired action:  
**Create - Modify - Delete**



Press **OK** to confirm

# Switchboard

## - Create

Internal Unit

> SCS Addr.

0

Logic Address

0

Description

-

Block

0

Floor

0

Apartment

0

Save



Move the cursor to the existing parameters in succession



Press **OK** to highlight data for which the value must be entered

Use the keypad to enter the new value, or description



Press **OK** to confirm



Once the necessary details have been entered move the cursor to **Save**



Press **OK** to save the new contact



Press to exit the menu

## - Modify

Modify

-

0

Apartment 2

2

Apartment 3

3

Apartment 4

4

Apartment 5

5

Apartment 6

6

Apartment 7

7



Select the contact to modify and press **OK**



A quick search bar is also present, where the user can enter the details of the required contact using the keypad

Internal Unit

> SCS Addr.

0

Logic Address

0

Description

-

Block

0

Floor

0

Apartment

0

Save



Select the parameter that needs changing and press **OK**

Use the keypad to enter the new value, or description



Cancel the entry in case of mistake



Press **OK** to confirm



Move the cursor to **Save**



Press **OK** to save the changes made



**WARNING:**

The switchboard makes direct calls using the logic addresses.

**- Delete**

Delete

-	0
A p a r t m e n t 2	2
A p a r t m e n t 3	3
A p a r t m e n t 4	4
A p a r t m e n t 5	5
A p a r t m e n t 6	6
A p a r t m e n t 7	7



Move the cursor to the contact to delete



Press **OK** to delete the contact



Press to exit the menu



# Switchboard

## 4.4 Time bands

For each day of the week, it is possible to set up to 3 day start and night start time bands, upon which the switchboard will automatically switch from one status to the other.

NOTE: This mode is active when the “Day/Night” function of the configuration menu is set to automatic (see User Manual).



Select the Time Bands function



Press **OK** to display the screen used to enter the time bands



Press **OK** repeatedly to select the day of the week


Select “Weekday” to set the time bands for every day from Monday to Friday at the same time.



Select the desired time band



Press **OK** to highlight the value to change

Use the keypad to enter the desired time; use the  key to delete wrong entries; Press OK twice to delete the selected time band and all subsequent ones.



Press **OK** to confirm and continue with the subsequent time bands



Press to exit the menu

4.5 Automations

This function can be used to configure up to 5 entrance panels, so that the corresponding door locks can be released when no calls are active from the entrance panel.



Select the Automation function



Press **OK** to access the menu



Lock Configuration			
SCS	Addr.	Description	Riser
1		Main EP	0
2		-	1
3		-	1
4		-	1
5		-	1



Select the parameter to set



Press **OK** to highlight the entry field

Use the keypad to enter the desired value or description



Press **OK** to confirm



Press to exit the menu

4.6 Function key setup

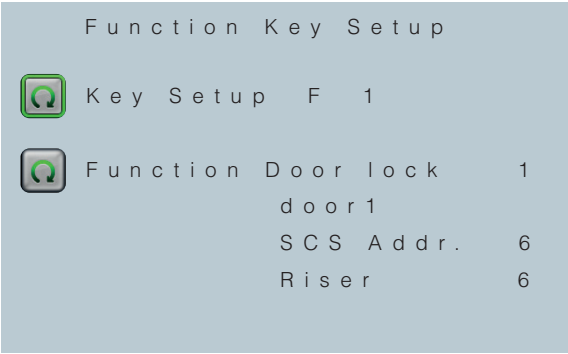
It is possible to configure each of the 12 keys of the dedicated keypad to perform a certain function.



Select Function Keys Setup



Press **OK** to access the menu



Press **OK** repeatedly to select the key to configure (F1 to F12)



Select Function



Press **OK** repeatedly to select the function to associate with the key.



Press to exit the menu

List of configurable functions:

- Door lock 1 to 5
- Handset Day/Night
- Entrance panel Day/Night
- Presence status
- Slave handset
- Staircase light
- Handset Call
- Entrance panel Call
- Switchboard call
- \_\_\_\_\_ (not configured)

### 4.7 Alarm setup

It can be used to enable or disable:

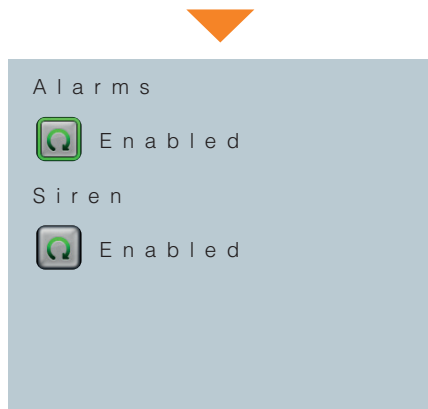
- alarms (burglar alarms, panic alarms, technical alarms)
- the contact for the external siren (or luminous signalling), accessible from the back of the switchboard



Select the Alarm Setup function



Press **OK** to access the menu



Select the desired item



Press **OK** repeatedly to enable/disable the function



Press to exit the menu

**NOTE:** The alarm function can also be enabled during the day only.



#### **WARNING:**

Alarms can only be managed from the main switchboard (local address 0).

## 4.8 Configuration

This function enables the initial configuration through:

- local switchboard address setup;
- associated entrance panel address setup;
- associated camera enabling/disabling;
- directory type selection (type 1: alphanumeric; type 2: coding (BPI));
- selection of the navigation language.



Select the Configuration functions



Press to access the menu



To change the local address of the main "EP":



Select Local address



Press **OK** to confirm



> Local Address 0



Main

Associated Switchb. --

Main EP 1



Select the desired item



Press **OK** to highlight the value to change

Use the keypad to change the value



Press **OK** to confirm

**NOTE: If only one switchboard is present, this must be configured as primary switchboard, with local address 0.**

**When more than one switchboard are present, any switchboard can be set as primary (only one for each system), or secondary (local address 1 to 15). In this case, enter the address of the associated primary switchboard in the appropriate field.**



Local Address



Associated EP List



Associated Camera Activated



Alphanumeric Address Book



English



Select Associated EP List



Press **OK** to confirm

For the list of the associated Entrance Panels on which the transfer from Day to Night mode should be managed:

# Switchboard

## Associated EP List



1:

Ind.Scs --



Local Address



Associated EP List



Associated Camera  
Activated



Alphanumeric Address Book



English



Press **OK** to confirm



Press **OK** repeatedly to move the cursor to the desired EP



Move the cursor to the SCS address line



Press **OK** to highlight the value to change

Use the keypad to enter the value



Press **OK** to confirm



Press to exit the menu

To activate the associated camera; to select the directory or the language:



Select the desired item



Press **OK** repeatedly to make the selection



Press to exit the menu

### Directory type:

- Alphanumeric: for each contact the content of the "Description" field will be displayed
- Block-Floor-Apartment: for each contact the content of the fields Block-Floor-Apartment will be displayed.

For more information see the "Modify Contact" section.

### 4.9 Change password

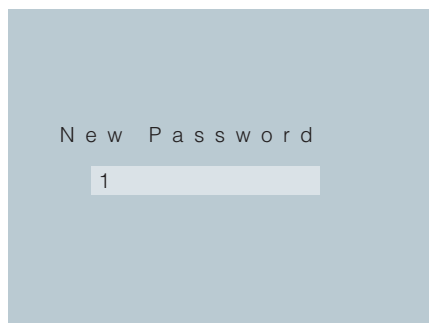
This function is used to change the password for access to the Installation setup section. The default password is 12345.




Select the Change Password function



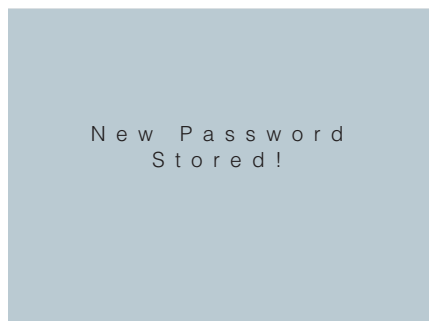
Press **OK** to confirm



Enter the new password using the keypad (max. 5 digit number) Press  repeatedly to delete entries made



Press **OK** to confirm and exit the menu.





# Switchboard

## 5 Advanced configuration

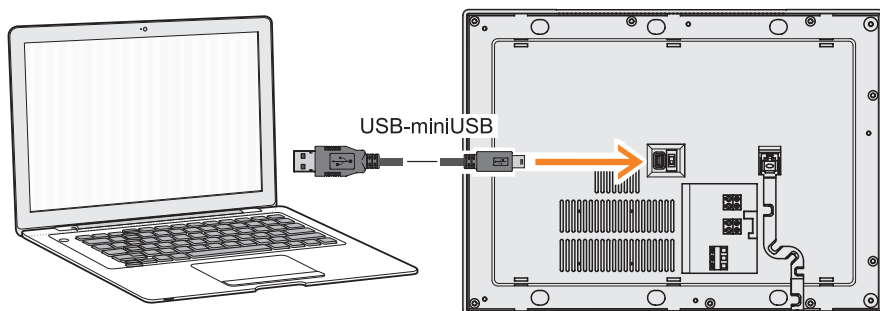
As an alternative to the menu setup, it is also possible to configure the switchboard from the PC, using the TiSwitchBoardDevice software found in the CD supplied.

### WARNING



Some functions, like the creation of the directories and the management of the bells, can only be performed using the software.

### 5.1 Connection to the PC

To transfer the configuration performed using the TiSwitchBoardDevice software, or to update the Firmware, connect the switchboard to the PC using a USB/miniUSB cable.



To enable communication the switchboard must be powered.

Problem	Solution
<b>No image appears when the Entrance Panel/ Cycling key  is pressed</b>	<ul style="list-style-type: none"> <li>- check that the switchboard is correctly wired and configured;</li> <li>- the audio/video channel may be busy, wait for it to become free and try again</li> </ul>
<b>No control is performed when the Door Lock key  is pressed</b>	<ul style="list-style-type: none"> <li>- check that the switchboard is correctly wired and configured;</li> </ul>
<b>The switchboard does not ring</b>	<ul style="list-style-type: none"> <li>- check that the switchboard is correctly wired and configured;</li> <li>- check that the bell volume has not been turned right down.</li> </ul>
<b>From the entrance panel it is difficult to hear who is speaking</b>	<ul style="list-style-type: none"> <li>- speak at a maximum distance of 50 cm from the handsfree microphone;</li> <li>- reduce the volume of the entrance panel microphone and increase the volume of the EP speaker</li> </ul>

# Switchboard

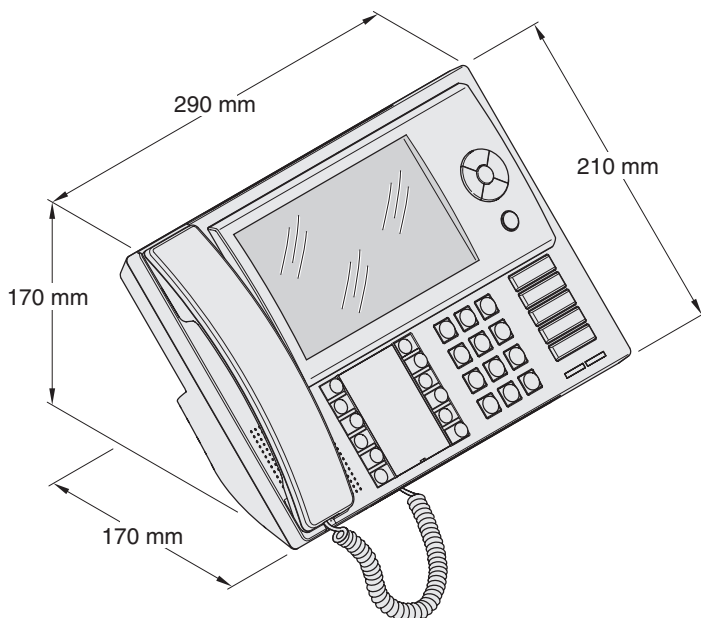
## 7 Appendix

### TECHNICAL DATA

Power supply	from SCS BUS: 19 - 27 V
	from 12: 18 - 27 V
Absorption (Max) from BUS with additional power supply	20 mA (A/V connection - at the minimum operating voltage)
	5 mA (in stand-by)
Absorption (Max) from BUS without additional power supply	450 mA (A/V connection - at the minimum operating voltage)
	35 mA (in stand-by)
Operating temperature	0 – 40 °C
Absorption (Max) from 1-2	300 mA

#### Note about the LCD screen

The LCD screen has been produced using state of the art high precision technology. It may however happen that up to 5 small black and/or red, blue, or green dots will appear on the LCD screen. This is normal and does not indicate wrong and/or faulty operations.



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